



COPY OF PAPERS  
ORIGINALLY FILED

RECEIVED

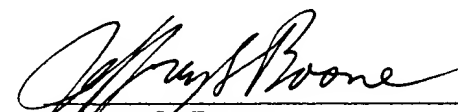
AUG 02 2002

TECH CENTER 1600/2900

\_\_\_\_\_  
I hereby certify that this Response under 37 C. F. R. 1.111 is being deposited with the  
United States Postal Service as first class mail in an envelope addressed to The Assistant

Commissioner for Patents, Box Non-Fee Amendment, Washington, D.C. 20231 on

2002 JUL 23

  
Jeffrey S. Boone  
Registration No. 29,294

#4  
Supp  
8-14-02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application of: G. L Cantrell

Serial No. 09/806,680

Filed: 10/12/98

For: NOVEL ULTRASOUND CONTRAST AGENTS

Attorney Docket No. 1159

Group Art Unit: 1616

Examiner: Michael G. Hartley

Box Non-Fee Amendment  
Commissioner For Patents  
Washington, D.C. 20231

FIRST RESPONSE UNDER 37 C.F.R. 1.111

In an Office Action dated June 25, 2002, the Examiner has required a restriction of the claims to one of two groups and an election of species.

Group I contains claims 1-13 drawn to a composition for ultrasound imaging comprising micro bubbles and a gas within a shell made from a blend of bipolar compounds and a method of ultrasound imaging by administering said composition.

Group II contains claims 14-20 directed to a method of measuring pressure or fluid flow rate in a closed system employing the composition of the claims in Group I.

Applicant elects Group I, Claims 1-13.

The Examiner has also required an election of species. With regard to Group I, the Applicant elects the following specie:

R<sub>1</sub>-X-Z

Cantrell, G. L.  
Serial No. 09/806.680

Wherein:

$R_1$  is a straight-chained alkyl  
 $X$  is  $-(CH_2)_m-$  wherein  $m$  is 1  
 $Z$  is  $CO_2-M^+$  (a carboxylate salt)

$R_2-X-Z$

Wherein:

$R_2$  is a straight-chained alkyl  
 $X$  is  $-(CH_2)_m-$  wherein  $m$  is greater than 2  
 $Z$  is  $CO_2-M^+$  (a carboxylate salt)

$R_3-X-Z'$

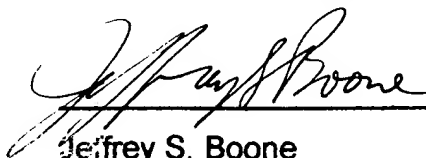
Wherein:

$R_3$  is a straight-chained alkyl  
 $X$  is  $-(CH_2)_mCONH(CH_2)_n-$  wherein  $m$  is 1 and  $n$  is 2  
 $Z'$  is poly(ethyleneglycol)

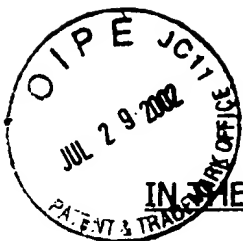
If the Examiner believes that a telephone conference would further advance the prosecution of this case or has any questions or concerns with regard to this amendment, the undersigned attorney for Applicants would appreciate and welcome such a telephone conference at the Examiner's convenience. The attorney for Applicants may be contacted as provided below.

2002 JUL 23  
Date: \_\_\_\_\_

Respectfully submitted,



Jeffrey S. Boone  
Registration No. 29,294  
Mallinckrodt Chemical Co.  
675 McDonnell Blvd.  
P.O. Box 5840  
St. Louis MO. 63134  
Phone No. 314-654-8955



COPY OF PAPERS  
ORIGINALLY FILED

1616  
RECEIVED

AUG 02 2002

TECH CENTER 1600/2900

Patent Application of: G. L Cantrell

Attorney Docket No. 1159

Serial No. 09/806,680

Group Art Unit: 1616

Filed: 10/12/98

Examiner: Michael G. Hartley

For: NOVEL ULTRASOUND CONTRAST AGENTS

Box Non-fee amendment  
Commissioner for Patents  
Washington, D.C. 20231

AMENDMENT TRANSMITTAL LETTER (Large Entity)

Transmitted herewith is a response in the above-identified application.

The fee has been calculated and is transmitted as shown below.

CLAIMS AS AMENDED

Claims remaining After Amendment	Highest No. Prev. Paid for	Number Extra Claims Present	Rate	Additional Fee
Total Claims	20	20		\$0
Indep. Claims	3	3		\$0
Multiple Dependent Claims-None				
TOTAL ADDITIONAL FEE FOR THIS AMENDMENT				\$0

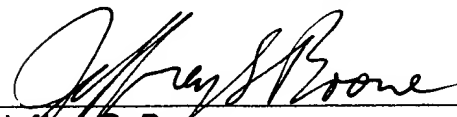
☒ No additional fee is required for Amendment.

☐ The Commissioner is hereby authorized to charge payment of the following fee associated with this communication or credit any overpayment to Deposit Account No.13-1160.

A duplicate copy of this sheet is enclosed.

☒ Any additional filing fee required under 37 C.F.R. 1.16

☒ Any patent application processing fees under 37 C.F. R. 1.17

  
Jeffrey S. Boone  
Registration No. 29,294  
Mallinckrodt Chemical Co.  
675 McDonnell Blvd.  
P.O. Box 5840  
St. Louis MO. 63134  
Mallinckrodt Chemical Co.  
Phone No. 314-654-8955

Dated: 2002 JUL 23